

CLAIMS

1. A metal side-plate for radiators (10),
in particular tubular radiators, in which the radiator
5 body exhibits tubes and heat exchanger surfaces (11)
extending between the tubes, in which the radiator (10)
is enclosed by at least one metal side-plate arranged
laterally on the radiator or at least one pair of metal
side-plates (12) arranged on either side of the
10 radiator (10),

characterized in that

at least one metal side-plate (12) exhibits at
least one weakened area (13), in which the material of
the metal side-plate (12) is weakened in such a way as
15 to allow compensation for the thermal expansion
corresponding to that of the radiator body.

2. The metal side-plate as claimed in claim
1, characterized in that the weakening of a weakened
20 area (13) is effected by perforations (14) in the
material of the metal side-plate (12).

3. The metal side-plate as claimed in claim
2, characterized in that the penetrations (14) are
25 embodied in such a way that a network of webs (15) is
formed.

4. The metal side-plate as claimed in claim
3, characterized in that the network of webs (15)
30 delimits lozenges standing on their tips as
penetrations (14) in the longitudinal extent of the
metal side-plate (12).

5. The metal side-plate as claimed in claim
35 3, characterized in that the network of webs (15)
delimits honeycomb-shaped penetrations (14).

6. The metal side-plate as claimed in one of claims 2 to 5, characterized in that a plurality of rows (16) of penetrations (14) is provided, in conjunction with which the rows (16) of penetrations (14) are preferably arranged off-set in relation to one another, and the number of rows (16) is preferably selected in such a way that, viewed in the direction in which the insert plate extends, the length of the penetrations (16) added together at each point transversely to the direction of their extent amounts to at least 1.5 times, and preferably at least two to three times, the maximum length of a penetration (14) in the direction of its extent.

7. The metal side-plate as claimed in one of the preceding claims, characterized in that the insert plate is bent, at least in the area of weakening (13), and is preferably of a u-shaped execution.

8. A heat exchanger having at least one metal side-plate as claimed in one of the preceding claims.